

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method of manufacturing an optical transceiver, comprising:
combining an optical socket and an assembling object to be assembled with the optical socket, the optical socket including a fitting hole to mount an optical plug holding an end portion of an optical fiber;
mounting an optical head to photograph the assembling object in the fitting hole of the optical socket and to obtain an image of the assembling object exposed to the fitting hole and reference position information in a photographed image display screen;
detecting a difference between the image of the assembling object and the reference position information;
reducing the difference by moving the optical socket and the assembling object relative to each other based on the difference; and
fixing the assembling object and the optical socket.
2. (Original) The method of manufacturing an optical transceiver according to Claim 1, the assembling object including at least one of a light-transmitting substrate and a can package.
3. (Original) The method of manufacturing an optical transceiver according to Claim 2, the image of the assembling object including at least one of a wiring pattern, a positioning mark, a positioning hole, a light-emitting element, a light-receiving element, a lens, and a window of the can package which are formed on the assembling object.
4. (Original) The method of manufacturing an optical transceiver according to Claim 1, the reference position information being a marker representing a screen central position of the photographed image.

5. (Original) The method of manufacturing an optical transceiver according to Claim 2, the mounting including disposing an image-formation position adjustment lens to adjust an image-formation position of the image between the optical head and the assembling object so as to obtain the image of the assembling object.

6-13. (Canceled)

14. (Original) An alignment adjustment device for use with an object, comprising:
an optical socket having a supporting body and defining a fitting hole;
an optical head inserted into the fitting hole of the optical socket, the optical head photographing the object around a bottom portion of the fitting hole, and outputting an image of the object as a read signal together with information representing a photographing reference position;
an image processing device to process the read signal to detect a difference between the object and the reference position; and
a moving device to reduce the difference by moving the supporting body and the optical socket relative to each other according to the difference.

15. (Original) The alignment adjustment device according to Claim 14, the information representing the reference position being a marker indicating a screen central position of the photographed image.

16. (Original) The alignment adjustment device according to Claim 14, the information representing the reference position being a marker indicating a predetermined position on a screen of the photographed image.

17. (Original) The alignment adjustment device according to Claim 14, the information representing the reference position being an alignment mark formed on one end face of a columnar body in the optical head, the face facing the object inserted into the fitting hole of the optical socket.

18. (Original) The alignment adjustment device according to Claim 14, the object including at least one of a wiring pattern, a positioning mark, a positioning hole, a light-emitting element, a light-receiving element, and a lens which are formed on the supporting body.

19. (Original) The alignment adjustment device according to Claim 14, further comprising an image-formation position adjustment lens, disposed between the optical head and the object, to adjust an image-formation position of the image.

20. (Original) The alignment adjustment device according to Claim 19, the image-formation position adjustment lens being disposed on a surface of the object.